

Causes of Failure of Steam Super-heater
Pipes Made From 18Cr/12Ni/iTi Steel,
by A. V. Stanyukovich.
RUSSIAN, per, Energomashinostroenie,
No 10, 1961, pp 27-30.
NLL/9091.9 1963 TRGIS 191

Sci -
Jul 67 334,311

Tsukerman, R. V. and Nazarenko, S. S.
COST INDICES IN THE MANUFACTURE OF LARGE
STEAM BOILERS. [1963] [10p] 2refs C.E.
Trans. 2734.

Order from OTS or SLA \$1.10 63-23974

Trans. of Energomashinostroenie (USSR) 1961 [v. 7]
no. 10, p. 33-36.

DESCRIPTORS: *Boilers, Steam, Costs,

Two statistical methods are described for calculating
the manufacturing costs of projected boilers. One
method is based on the functional relation between cost
price and the materials component. This method re-
quires a drawing or technical project which permits an
approximate calculation of the material required from
which the theoretical cost price can be calculated. The
second method is based on determining the relation
(Engineering--Mechanical, TT, v. 10, no. 12) (over)

63-23974

I. Tsukerman, R. V.
II. Nazarenko, S. S.
III. CE Trans-2734
IV. Central Electricity
Generating Board
(Gr. Brit.)

NCL (LOAN) REF:
9022.09 1963(2,734)

Office of Technical Services

Experimental High-Temperature Gas Turbines OGT-850
of the Central Scientific Research Institute
for Boilers and Turbines, by I. N. Yefimov, 1 pp.⁴⁸

RUSSELM, per, Energomashinostroyeniye, No 10,
1961, pp. 1-5, 9679270
⁴⁸

FID-TP-62-1023

Sci-Libr:
Dec 62

219,564

Calculating the Diaphragm as a Half-Ring on
an Elastic Supporting Contour, by
V. L. Ingul'tsov.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 11, 1961, pp 1-5.

MLL Ref: 9022.03 1963 (3297) (Loan)

Sci - Engr
Feb 64

248,590

Aizenshtat, I. I. DYNAMIC PROPERTIES OF THE FEED CONTROL SYSTEM OF ONCE-THROUGH BOILERS WITH RE- SPECT TO THE "HEAT-WATER" CYCLE. [1963] [12p] 5refs C. E. Trans. 2610. Order from OTS or SLA \$1.60	63-24078	I. Aizenshtat, I. I. II. CE Trans-2610 III. Central Electricity Generating Board (Gt. Brit.)
Trans. of <u>Energomashinostroenie</u> (USSR) 1961, v. 7, no. 11, p. 5-9.		
DESCRIPTORS: *Boilers, *Feed water, Control systems, Pressure, Steam, Damping, Dynamics.		

Factors are considered which determine the stability
of the feed control system of a once-through boiler with
respect to the "heat-water" ratio. A method of increas-
ing the damping of the system is developed based on
introducing an additional impulse into the feed regulator
to denote the temperature of the medium at one or more
points in the steam delivery line preceding the first
desuperheater. (Author)

(Engineering--Mechanical, TT,
v. 10, no. 12)
Office of Technical Services

Technical Projects for New Turbines to be
Produced by the Khar'kov Turbo-generator
Plant, by B. M. Panshin.

RUSSIAN, per, Energomashinostroenie, Vol VII,
No 11, 1961, p 26...

NLL Ref: 9022.03 1963 (3298) (Loan)

Sci = Engr
Feb 64

248, 591

The Effect of Non-Metallic Inclusions on the
Strength of Turbine Discs., by P. N. Petrov.

RUSSIAN, per, Energomashin, Vol VII, No 11,
1961, pp 27-30.

ILL N 8850
223, 567

Sci - Engr
Feb 63

Bubentsov, A. M. and Polukanin, P. N.
FRICTIONAL POWER LOSSES AND OIL CONSUMPTION IN THE THRUST BEARINGS OF TURBINES.
[1963] [15p] 10refs C. E. Trans. 2699.
Order from OTS or SLA \$1.60 63-24080

Trans. of Energomashinostroenie (USSR) 1961, v. 7,
no. 11, p. 34-38.

DESCRIPTORS: Turbines, *Thrust bearings, Friction,
Power, Lubrication, Lubricants.

Factors affecting frictional power losses and oil consumption in two-sided thrust bearings of turbines are considered. The comparative quantitative characteristics obtained by calculation and by various methods for five typical thrust bearings of different dimensions, operating over a wide speed range and at two mean pressure values are quoted. An evaluation of different methods for the calculation of power losses and oil consumption in thrust bearings is given. (Author)

63-24080

- I. Bubentsov, A. M.
- II. Polukanin, P. N.
- III. CE Trans-2699
- IV. Central Electricity Generating Board (Gt. Brit.)

(Machinery--Machine Parts, TT, v. 10, no. 12)

Office of Technical Services

The Effect on Efficiency of the Shape of the
Low-Pressure Bladed Section in a Steam Turbine,
by I. I. Kirillov.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 12, 1961, pp 1-5.

NLL Ref: 9022.03 1963 (3303) (Loan)

Sci
Feb 64

Calculation of a Transverse Cross Section by a
Method of Flux Characteristics, by G. A. Sokolovskiy,
12 pp.

RUSSIAN, per, Energomashinostroyeniye, No 12, 1961,
pp 22-24. 9681645

PL 85-103, P-1 (23M)

PTD-TT-62-1739

Sci-Engr
May 63

229,535

Towards Defining a Rational Design for the
Flanged Joints in Steam Turbines, by I. Z.
Kopp.

RUSSIAN, per, Energomash, Vol VIII, No 12, 1961,
pp 25-26.

NLL M 3917

Sci - Engr
Mar 63

225/411

Stress Concentration in the T-Shaped Tail Connection
of Moving Turbine Blades, by Ch. G. Mustafin.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 12, 1961, pp 46-⁴67.

NLL Ref: 9022.03 1963 (3306) (Loan)

Sci
Feb 64

Some of the New Work Accomplished by the Khar'kov
Turbogenerator Plant, by M. I. Repkin.

RUSSIAN, per, Energomashinostroyeniye, Vol VII,
No 12, 1961, p 48.

NLL Ref: 9022.03 1963 (3307) (Loan)

Sci
Feb 64

The Effect of the Angle of the Blades on Some
of the Characteristics of Single-Row Turbine
States, by M. E. Deich, V. A. Baranov.

RUSSIAN, per, Energomashinostroyeniye, Vol VIII,
No 1, 1962, pp 6-9.

NLL Ref: 9022.03 1963 (3308) (Loan)

Sci
Feb 64

The Calculation of Strength of Flange Joints in
Cylinders of Turbines, by P. I. Anson.

RUSSIAN, per, Energomash, Vol VIII, No 1, 1962,
pp 24-29.

NLL M 38 3893

Sci - Engr
Mar 63

225,423

Pearlitic Steel EP 44 (TsZh 10) Relaxation-
Resistant at 565-600°C, by T. I. Volkova,
Z. N. Petropavlovskaya.

RUSSIAN, par, Energomashinostroenie, No 1, 1952,
pp 33-36.

BISI 3005

22-637

Sci - M/M
Feb 63

The Efficiency of a Cross-Ribbed Curvilinear Diffuser, by V. K. Migay, Candidate of Technical Sciences, 15 pp.

RUSSIAN, per, Energomash, No 1, 1962, pp 45-46.
9678833

FTD-TT-62-1151
NLL Ref. 9022.03 1963 (3309) (LOAN)
Sci-Phys, Aero
Dec 62

317,567

Peculiarities of Machining Herringbone Surfaces on
Turning Catches, by A. V. Belov.

RUSSIAN, per, Energomash, No 2, 1962, pp 302.

U.K. Atomic Energy Authority
Springfields Tr-92

Sci - Engr
Jul 62

202,116

The Influence ~~XX~~ of the Products of Combustion of
Sulfur-Containing Fuel Distillates on the Con-
struction Materials of Gas Turbines, by
B. V. Losikov, A. D. Fat'yanov, et al., 13 pp.~~XX~~

RUSSIAN, per, Energomashinostroyeniye, No 2, 1962,
pp 34-37. 9679787

FTD-TT-62-1026

Sci-Engr
Mar 63

22⁴, 706

The Concentration of Stresses During Expansion
in Conditions of Plane and Axisymmetrical Creep
Deformation, by A. N. S. Grubin.

RUSSIAN, par, Energomashinostroyeniye, Vol VIII,
No 3, 1962, pp 15-21.

ILL N 5100

Sov. Engr
May 65

229,353

The Technical and Economic Factors Involved in
the Manufacture of Steam Turbines, by R. V.
Tsukerman.

RUSSIAN, per, Energomashinostroyeniye,
Vol VIII, No 6, 1962, pp 22-25.

NLL Ref: 9022.03 1963 (3357)
(loan copy)

Sci
Sep 64

Investigating the Last Stages of Condensing Steam
Turbines, by B. M. Troyanovskiy, F. V. Kazintsev.

RUSSIAN, per, Energomashinostroyeniye, Vol VIII,
No 3, 1962, pp 26-29.

NLL Ref: 9022.03 1963 (3310) (Loan)

Sci
Feb 64

Shubenko-Shubin, L. A., Sobolev, S. P., and
Poznakhirev, V. P.
THE DESIGN OF MOVING BLADES FOR THE LAST
STAGES OF HIGH-CAPACITY STEAM TURBINES.
[1963] [18p] 2refs C. R. Trans. Z708.
Order from OTS, SLA, or ETC \$1.60 TT-63-23984

Trans. of Energomashinostroenie (USSR) 1962 [v. 8]
no. 4, p. 5-10. (Abstract available)

DESCRIPTORS: *Steam turbine blades, Design,
Mechanical properties.

Details are given of present-day achievements in the
field of the design of the rotor blades of the last stages
of large turbines. Descriptions are given of the
methods used for strength calculation of the active zone
of the blades, measures to reduce the total stresses in
this zone, and some results of actual calculations.

(Author)
(Machinery, Fabrications and Accessory Equipment,
TT, v. II, no. 2)

TT-63-23984

I. Shubenko-Shubin, L. A.
II. Sobolev, S. P.
III. Poznakhirev, V. P.
IV. CE Trans-2208

V. Central Electricity
Generating Board
(Gt. Brit.)

NLL (LOAN) Ket:
9022.09 1963 (2,703)

Office of Technical Services

Some Problems in Strain-Gauge Measurements on
the Moving Blades of Turbo-Machines, by K. V.
Frolov.

RUBSHAN, per, Инженерно-технические, Vol VIII,
No 4, 1952, pp 33-37.

ML M 8979

229,134

Sci - Engr
May 63

Thermophysical Characteristics of Ordinary
and Heavy Water, by P. A. Andreyev, et al.

RUSSIAN, per, Energomashinostroenie,
No 4, 1962, pp 46-48.

U.K.A.E.A.
Rislev, Tr 271

Sci - Geophys
Sep 62

210, 904

The Effect of Lacing Wires on the Efficiency of
a Turbine Stage, by I. I. Kirillov, R. V. Kuz'michev.

RUSSIAN, per, Energomashinostroyeniye, Vol VIII,
No 5, 1962, pp 1-4.

NLL Ref: 9022.03 1963 (3355)
(loan copy#)

Sci
Sep 64

Calculation of Stress Distribution in the Body of
Spherical Valves for High Head Hydroelectric
Station, by A. U. Bugov.

RUSSIAN, per, Energomashinostroenie, No 5, 1962,
pp 17-20.

CFSTI TT 67-59020

Sci-Phys
Feb 69

372,873

A Heat Resistant Cast Chrome Steel, as a Material for
the Components of Power Installations With an Operating
Temperature of Up to 600° C, by E. E. Levin, E. N.
Masaleva.

RUSSIAN, per, Energomash, Vol VIII, May 1962,
pp 24-27.

g
*BISI 3002

Sci - Min/Metals

sup no 135
24 Aug 62 NLL Reg: 58284 1964 (10,542)
(LOAN COPY)

THE KHTGZ STEAM TURBINE OF THE SKR-100 TYPE WITH
COOLING FOR THE SUPERCRITICAL STEAM PARAMETERS,
BY L. A. SHUBENKO-SHUBIN, S. I. OSTROVSKIY, 21 PP.

RUSSIAN, PER, ENERGO-MASHINOSTROYENIYE, NO 6,
1962, PP 4-10.

JPRS 15608

USSR

ECON

SCI - ENGR

Mkh Ref. 5828.4 1962. 5.23/
(Loans)

213,458

Fuel Additives, an Effective Means for Increasing
the Motor Power of Power Installations, by
P. P. Rostkin, 21 pp

RUSSIAN, per, Energomash, No 6, 1962, pp 26-28.
9668243

FTD-TF-62-1931

Sci-Phys
Apr 63

227066

Ventilation Losses in a Turbine Stage, by
A. D. Mazheritskiy, 13 pp.

RUSSIAN, per, Energomash, No 6, 1962, pp 29-32.
9668196

FTD-TT-62-1740

Sci-Engr
Apr 63

227,069

AK ~ Ref. 2082-63 1962 (3267)
(Local copy)

(DC-1830)

AN INDUSTRYWIDE CONFERENCE ON POWER MACHINE
BUILDING, BY V. G. TYRYSHKIN, L. I. PONARSKIY,
6 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 6,
1962, P 41.

JPRS 14755

USSR
ECON
AUG 62

206,201

RADICAL-AXLE HYDRAULIC TURBINE OF A 230,000 KW
CAPACITY FOR THE BRATSKAYA GES, BY A. F. VOLKOV,
7 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 7, 1962,
PP 1-4.

JPRS 16265

SCI - ELECTRONICS

NOV 62

219,770

Damping the Vibrations of Heavy Rotors, by S. I.
Sergeyev, 9 pp.
RUSSIAN, per, Energyashinostroyeniye, No 7,
July 1962, pp 16-18.
JPRS 29000

Sci-Engr
Mar 65

276,117

Internal Heat Insulation of the Casing of Gas
Turbines Type GT-700-5, by L. A. Muznetsov,
B. P. Mironov, 12 pp.

RUSSIAN, per, Energomashinostroyenie, No 7,
1962, pp 23-25.

CIA/FDD XX-1410
No Foreign Dissem

Sci - Engkr
Sept 63
USIB Internal Use Only

5744,145

Karyagin, N. P.
ECONOMIC TEMPERATURE OF BOILER FLUE
GASES. [1963] [11p] Greda C. E. Trans. 2804.
Order from OTS, SLA, or ETC \$1.60 TT-63-23964

Trans. of Energomashinostroenie (USSR) 1962, v. 8,
no. 7, p. 29-32. (Abstract available)

DESCRIPTORS: *Boilers, *Exhaust gases, Temperature,
Heat exchangers, Economics, Steam power
plants, Mathematical analysis.

A method of determining the most economical boiler
flue gas temperature is described. The general case
of the use of a surface heat exchanger capable of
operating under conditions of the condensation of steam
from the flue gases is included. (Author)

(Engineering--Mechanical, TT, v. 11, no. 2)

TT-63-23964

I. Karyagin, N. P.
II. CE Trans-2804
III. Central Electricity
Generating Board
(Gt. Brit.)

NLL(LOAN)Ref:
9022.09 1963(2. 204)

Office of Technical Services

TWENTIETH ANNIVERSARY OF THE BARNAUL BOILER PLANT,
BY N. V. PAVLOV, 4 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYA, NO 7,
1962, P 38.

JPRS 15690

USSR
ECON
SCI-ENGR
OCT 62

215,046

CONFERENCE ON THE PROBLEMS OF DEVELOPMENT,
UTILIZATION AND RESEARCH OF MATERIALS FOR UNITS
WITH CAPACITIES OF 300, 500 AND 880 THOUSAND
KILOWATTS, BY YE. YE. LEVIN, YE. N. MASALEVO,
3 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYA, NO 7, 1962,
PP 39-40.

JPRS 15690

USSR
ECON
SCI-ENGR
OCT 62

215,047

PK-39 BOILER UNIT WITH A 950 - TON STEAM
GENERATING CAPACITY, BY YU. I. OKERBLOM, 9 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 8,
AUG 1962, PP 1-5.

JPRS 16826

SCI - ENGR

JAN 63

219,036

The Aerodynamic Influence of Lacing Wires on
the Operation of the Blading in Axial Compressors,
by G. A. Khatmin.

RUSSIAN, per, Energomashinostroyeniye, Vol VIII,
No 8, 1962, pp 16-18.

NLL Ref: 9022.03 1964 (3370)
(loan copy)

Sci
Sep 64

The Influence of Low Overlap on Turbine
Stage Efficiency, by A. G. Sheinkman.

RUSSIAN, per, Energomashinostroyeniye,
Vol VIII, No 8, 1962, pp 28-29.

NLL Ref: 9022.03 1964 (3371)
(loan copy)

Sci
Sep 64

Damage to Steam Turbine Rotors,
by I. M. Stepanov.
RUSSIAN, per, Energomashin, 1962,
Vol VIII, No VIII, pp 31-32.
NLL 9022.03 1964 (3372) (On Loan)

USSR
Sci-F&P
July 65

284,610

GAS TURBINES FOR LARGE-SCALE POWER PRODUCTION
AND THE MAJOR SCIENTIFIC AND TECHNICAL PROBLEMS
OF THEIR DEVELOPMENT, BY M. I. KORNEYEV, ~~XXX~~
D. V. LITVINOV, ET AL, 16 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIE, NO 9,
1962, PP 1-5.

JPRS 16634

USSR
ECON
SCI - ENGR
DEC 62

218,264

TURBO - COMPRESSORS FOR PRESSURE CHARGING
DIESEL ENGINES, BY M. M. KOVALEVSKIY, YA. M.
GUSAK, ET AL, 9 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 9,
1962, PP 35-37.

JPRS 16634

USSR
ECON
SCI - ENGR
DEC 62

218,263

The Influence of Supercooling and the Structure of
Moist Steam on its Discharge Through Nozzles,
by I. I. Kirillov, R. M. Yablonik.

RUSSIAN, per, Energomash, Vol VIII, No 10, 1962,
pp 6-10.

ML Ref: 5828.4 1962 (5,229) (loan)

Sci - Phys
Jul 63

136,102

Condensation of Steam from a Steam-Air
Mixture Inside Vertical Channels, by
V. A. Rachko.
RUSSIAN, per, Energomashinostroeniye,
1962, Vol 8, No 11, pp 24-28.
NLL RTS 2588 (On Loan or Purchase)

Aug 65

287,020

Study of the Operation of a Centrifugal
Compressor Wheel, by S. A. Anisimov, 19 pp.

RUSSIAN, per, Energomashinostroyeniye, No 221,
1962, pp 5-16. 9681624

FTD-TT-62-1816

Sci-Engt
May 63

429546

The Influence of the Number of Vanes on the Efficiency of the Centrifugal Wheel with a Single-Stage Cascade, by S. A. Anisimov,
24 pp.

RUSSIAN, per, Energomashinostroyeniye, No 221,
1962, pp 17-31. 9681624

PTD-TT-62-1816

Sci-Engr
May 63

229, 547

Study of the Efficiency of Centrifugal Compressor
Werk Wheels with a Two-Stage Vane Cascade, by
M. I. Kalinina, 25 pp.

RUSSIAN, per, Energomashinostroyeniye, No 221,
1962, pp 32-46. 9661624

FTD-TT-62-18)6

Sci-ingr
May 63

229,548

Calculation of Variable Regimes of Cascade Flow, by
V. A. Zysin, 12 pp.

RUSSIAN, per, Energomashinostroyeniye, No 221, 1962,
pp 103-109. 9681624

S PTD-TT-62-1816

Sci-Hngr
May 63

229,549

POWER MACHINE-BUILDING PROBLEMS IN LIGHT OF THE
DECISIONS OF THE CPSU CENTRAL COMMITTEE NOVEMBER
PLENUM, 12 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, VOL IX,
NO 1, 1963, PP 1-2.

JPRS 18133

USSR
ECON
MA 63
R

225,157

The Effect of Cavitation Type n the Form
of Hydroturbine Separation Characteristics,
by L. S. Shmuglyakov.
RUSSIAN, per, Energomashinostroyeniye, No 1,
1963, pp 25-27.
CIA X-7066

July 69

387,226

Bladless Guide Vane for Centripetal Turbines,
by A. V. Gubarev, G. A. Filippov, et al, 9 pp.
RUSSIAN, per, Energomashinostroyeniye, No 2,
1963, pp 38-39. 9692703
FTD-TT-64-141

Sci-Engr
June 64

260,688



TASKS FOR POWER MACHINERY CONSTRUCTION, 5 PP

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 3,
1963, PP 1, 2.

JPRS 19195

USSR-ECON
MAY 63

also
JPRS 19474 231,363

Investigating the Efficiency of a Cooling System
for a Supercritical Steam Turbine Rotor, by
D. A. Pereverzev, L. V. Povolotskiy.

RUSSIAN, per, Energomashinostroyeniye, Vol IX,
No 4, 1963, pp 9-13.

NLL Ref: 9022.09 1963 (3198) (Loan)

Sci
Feb 64

Some Results of Model Tests on Francis Hydraulic
Turbines, by N. T. Klyuikov.
RUSSIAN, per, Energomashinostroenie, No 4,
1963, pp 35-37.
NTC-71-15593-13G

Feb 72

Shubenko-Shubin, L. A.

SOME SOLUTIONS OF THE PROBLEM OF THE FREE
VIBRATIONS OF A TURBINE BLADE OF VARIABLE
CROSS-SECTION. [1963] [14p] C. E. Trans. 3255.
Order from OTS, SLA, or ETC \$1.60 TT-64-15276

Trans. of Energomashinostroenie (USSR) 1963, v. 9,
no. 5, p. 1-6.

TT-64-15276

- I. Shubenko-Shubin, L. A.
- II. CE-Trans-3255
- III. Central Electricity
Generating Board,
London (England)

(Machinery--Engines, TT, v. 11, no. 12)

Office of Technical Services

Effect of Ovality on the Creep Rupture Strength of Bent Tubes, by A. A. Zakharov, A. A. Ivanov.

RUSSIAN, per, Energomashinostroyeniye, Vol IX, No 6,
1963, pp 33-35.

NLL Ref: 9022.09 1963 (3245) (Loan)

Sci
Feb 64

CL 34 35/2

Determination of the Design Dimensions
of the Flexible Connection for Damping
Tangential Blade Vibrations, by K. A.
Prokof'ev and Yu. A. Vidyakin.
RUSSIAN, per, Energomashin, 1963,
Vol IX, No VII, pp 14-16.
NLL 9022.03 1964 (3441 (On Loan)

USSR
Sci-F&P
July 65

284,605

Concerning the Coefficient of Discharge of
Turbine Nozzle Lattices, by M. D. Sennichenko.
GASIAV, per, Inergomashinostroenie, No 7, 1963,
pp 19-21.
NLL 5774.5 (1441)

Sci - Nat
Nov 67 343,882

Dimensionless Characteristics of Gas
Turbine Units with Slitted Shafts,
by V. A. Rogova, Tu Keng-yung, 13 pp.
RUSSIAN, per, Energomashinostroyeniye,
No. 8, 1963, 14-17. 9697538
FTD-TF-65-671

Sci-Engr
Aug 65

287,039 287,039

THE APRIL 1963 CONFERENCE OF THE DIESEL INDUSTRY,
BY L. K. KOLLEROV, 6 PP.

RUSSIAN, PER, ENERGO-MASHINOSTROYENIYE, NO 8, 1963,
PP 36-37.

JPRS 21031

USSR
ECON
NOV 63

242,106

THE APRIL 1963 CONFERENCE OF THE POWER-MACHINERY INDUSTRY, BY I. YE. DUBOVSKIY, V G TYRYSHKIN, ET AL., 9 PP.

RUSSIAN, PER, ENERGOMASHINOSTROYENIYE, NO 8, 1963,
PP 38-39.

JPRS 21031

USSR
ECON
NOV 63

242,107

A Multi-point Switching Device for Investigating the Temperature Fields and Stresses in the Rotating Parts of Turbomachinery, by
N. M. Gorelkin.
RUSSIAN, per, Energomashinostroeniye, 1963,
Vol 9, No 9, pp 43-45.
MLL 9022.09 1964 (3625) (On Loan)

Aug 65

287,169

Approximate Calculation of the Natural Frequencies
of Vibration of Runners of Francis Hydraulic
Turbines, by Ya. A. Aronson,
RUSSIAN, per, Energomashinostroenie, No 10,
1963, pp 5-7.
NTC-71-15594-13G

Feb 72

Power Machine Construction Progress, 7 pp.
RUSSIAN, per, Energomashin, No 10, 1963, p 40.

JPRS 22775

USSR
Econ
Jan 64 247, 087

Determining Optimum Degrees of Compression
and Expansion in a Complex Gas Turbine
Installation, by F. Z. Ratner, 13 pp.
RUSSIAN, per, energomashinostroyeniye,
No 11, 1963, pp 11-14. 9697137
FTD-TT-64-1075

Sci-Engr
Jun 65

282,221

Tension of Discs of Semi-enclosed
Wheels of Radial Turbines, by Ya. A.
Shustorovich.
RUSSIAN, per, Energomashinostroeniye,
1963, No 11, pp 18-22.
NLL RTS 2568 (On Loan or Purchase)

EFSTI TT 64-19377

Aug 65

286,453

Heat Transfer in Labyrinth Seals of Turbine
Shafts, by E. P. Dyban, V. Yu. Khavin, 12 pp.

RUSSIAN, per, Energomashinostroenie, No 12, 1963,
pp 8-11.

CIA/FDD XX-1570
NO FOREIGN DISSEM

Sci - Engr
Aug 64
USIB Internal Use Only

265,186

Heat Emission of a Disk Rotating in a Housing,
Subject to an Impinging Air Current, by
A. L. Kuznetsov.
RUSSIAN, per, Energomashinostroenie, No 12, 1964,
pp 11-14.
NTC-71-12229-13A

NOV 71

The Measurement of the Initial Gas Temperature
in a GI [Gas Turbine] Based on Indirect Para-
meters, by S. A. Kantor, L. V. Arsen'ev. 12 pp
RUSSIAN, per, Energomashinostroyeniye, No 12,
1963, pp 12-15.
AIR/PTD/M-23-718-68

sci/propulsion and fuels
may 69

381,257

Twist of Flow and Its Effect on the Efficiency of a Curvilinear Diffuser, by V. N. Amelyushkin,
M. P. Umanskiy, 10 pp.
RUSSIAN, per, Energomashinostroyeniye, No 12,
1963, pp 1818-21. 9695136
PTD-TT-64-551

Sci - Engr
Nov 64

269,084

Choice of Clearances in Fir-Type Gas Turbine
Dovetail, by N. Z. Suponitskiy, 7 pp.

RUSSIAN, per, Energomashinostroyeniye, No 12,
1963, pp 29-31.

CIA/FDD XX-1559
NO FOREIGN DISSEM

ALL RTS PAGES CONTINUE

Sci - Phys
May 64
USIB Internal Use Only

259,081

NCH-200 186

Field 21E

Terentev, I. K.
DETERMINING THE DEGREE OF WETNESS IN THE
BLADED PORTION OF TURBINE (Opredelenie Stepeni
Vlazhnosti v Protochnoi Chasti Turbiny), 1 Oct 64,
9p (foreign text included) 3refs. TP/T-3537.
Order from NLL

Trans. of Energomashinostroenie (USSR) v9 n12 p39-40
1963.

1. Associated Electrical
Industries, Ltd.,
Trafford Park (England)

NCH-202 564

Field 20K

Kozlov, I. A.
INFLUENCE OF CONCENTRATED STRESS ON THE RE-
LIABILITY OF ROTATING DISCS (Vliyanie Koncentra-
torov Napryazhenii na Prochnost Vrashchayushchikh Maya
Diskov). 8 Sep 65, 12p (foreign text included) 8refs.
TP/T-3748.
Order from NLL

Trans. of Energomashinostroenie (USSR) v10 n1 p35-7
1964.

I. Associated Electrical
Industries, Ltd.
Trafford Park(England)

Liquid Suspensions as Heat Transfer Agents
by V. I. Kofanov, 10 pp.
RUSSIAN, per, Energomashinostroyeniye, No 1,
1964, pp 41-43. 9896737
IFTD-TT-64-1147

Sci - Engr
May 65

278,442

Pulsation of the Steam - Water Flow in a Heated Tube,
by G. G. Treshchev.
RUSSIAN, per, Energomashinostroenie, Vol X, No 3,
1964, pp 4-7.

AEC-Windscale Tr 142
Available on loan only

Sci
Dec 64

Determination of the Frequency of Bending Vibrations
in Rotating Twisted Blades, by A. Ye. Shneydman,
A. V. Trehatsinskiy and L. I. Lupilov, 12 pp.
RUSSIAN, per, Energomashinostroyeniye, No 3, 1964,
pp 8-12.

JPRS 29615

Sci-Engr
Apr 65

278,919

Energy Characteristics of Curvi-Axial Diffusers,
by N. D. Polotskiy, 15 pp.
RUSSIAN, per, Energomash, No 3, 1964, pp 12-16.
9696082
PTD-TT-64-711

Sci - Engr
Mar 65

275,6710

Materials, Technology and Production Economy
Welding of Austenitic Heat Resisting Steels and
Alloys Used in Building Gas Turbines,
by B. I. Medovar , 15 pp.
RUSSIAN, RUSSINAN, per, Energomashinostroyeniye,
No 3, Mar 1964, pp 25-30.
JPRS 25100

Sci + M/M
Jun 64

261,887

Methode of Designing Axial Compressors for
Stationary Gas-Turbine Plants, by F. S. Bedcher,
8 pp.

RUSSIAN, per, Energomashinostroyeniye, No 3,
1964, pp 30-32. P100240368-V
FTD-HT-23-803-67

RL 475273

Sci/Energy Conv
Oct 68

363,395

Effect of the Clearances Between
the Casing and the Wheel Upon the Efficiency
of the Centripetal Gas Turbine, by
A. Ye. Zaryankin, M. F. Zatsepin.
RUSSIAN, per, Energomashinostroyeniye,
No 3, 1964, pp 33-35.
NASA TT F-10,450

Sci-Prop and Fuels
Jan 67

317m,882

Limiting Power of Closed-Cycle Gas
Turbines, by V. I. Batishchev, 12 pp.
RUSSIAN, per, Energomashinostroyeniye,
No 4, 1964, pp 14-16. 9698625
FTD-TT-65-626

Sci - Engr
Dec 65

29L927

Vibration of the Turbine Blades of Turbocompressors,
by Engineer R. S. Deych, 10 pp.
RUSSIAN, per, Energomashinostroyeniye, No 4, Apr 64,
pp 25-27.
JPRS 29713

USSR
Sci-Engr.
Apr 65

279,116

Effect of the Fit of Disks and Bushings on the
Bending and the Critical Speed of a Turbine Rotor,
by Engr. V. Ya. Kal'mens, 8 pp
RUSSIAN, per, Energomashinostroyeniye, No 4, Apr 64,
pp 28-30.
JPRS 29718

USSR
Sci.-Engr.
Apr 65

279,117

Distributors for the Krasnoiarsk Hydraulic
Turbines, by M. I. Galperin.
RUSSIAN, per, Energomashinostroenie, No 5,
1964, pp 45.
NTC-71-11326-09C

Nov 71

Studying the Nonstationary Mode of
Operation of a Cooled Gas Turbine Disk
Rotor, by P. I. Korzh,
L. V. Novolotskiy, et al, 11 pp.
RUSSIAN, per, Energomashinostroyeniye,
No 5, 1964, pp 6-9. 9698182
FTD-TT-65-677

Sci-Engt & Prop
Oct 65 290,238

Aerodynamics and Heat Transfer of a Flat
Turbulent Stream Flowing Along a Flat
Surface, by A. L. Kuznetsov,
A. V. Sudarev, 14 pp.
RUSSIAN, per, Energomash, No 6, 1964,
pp 8-11. 9699406
FTD-TF-65-1030

Sci - Engr
Feb 66

274,782

Single Shafts of the Hydrogenerating Units of
the Krasnoiarsk Hydropowerplants, by
M. I. Galperin.
RUSSIAN, per, Energomashinostroenie, No 6, 1964,
pp 43, 45.
NTC-71-11289-13G

Nov 71

Viktor Pavlovich Gur'ev, 3 pp.

RUSSIAN, per, Energomash, Leningrad, No 6,
1964, p 44.

CIA/FDD X-5473

USSR
Biog
Nov 64
FOR OFFICIAL USE ONLY

Stability of Parallel Work of
Centrifugal Pumps, by Ye. L. Shirokin,
V. A. Barkavi, 13 pp.
RUSSIAN, per, Energomashin, No 7,
1964, pp 8-11. 9698783
FTB-TF-65-938

Sci - Engr
Dec 65

291,952

Computation of Temperature Fields and
Stresses in the Cooled Rotor of a Gas
Turbine on Starting, by S. A. Mokrushin,
Ya. N. Gusak, 19 pp.
RUSSIAN, per, Energomash, No 7, 1964,
pp 11-15. 9698945
FTD-TT-65-1028

Sci - Engr
Feb 66

296,386

Investigation of Pulse Distortions of Turbine
Blades Using the Wave Method, by A. A. Moiseyev,
A. A. Petrov and O. I. Mikhaylov, 11 pp
RUSSIAN, pqr, Energomashinostroyeniye, No 7,
July 64, pp 19-21.
JPRS 29565

USSR
Sci-Engr.
Apr 65

277,761

The M-3550 MF Gas Turbine, by
Ye. N. Brokonov, O. N. Alekseyev,
11 pp.
RUSSIAN, por, Energomashin, No 7,
1964, pp 23-25. 9698783
FTE-TT-65-938

Sci - Engr
Dec 65

291,953

Effect of the Radial Temperature
Gradient on Blade Twist in Axial-Flow
Turbines, by Yu. I. Mityushkin, 8 pp.
RUSSIAN, per, Energomashin, No 7,
1964, pp 26-28. 9698783
ITD-TT-65-938

Sci - Engr
Dec 65

291,954

Calculation of the Distribution of
Steam Parameters in a Turbine Stage
With an Allowance for Radial Acceleration,
by N. Ye. Levina, P. A. Romanenko, 14 pp.
RUSSIAN, per, Energomashinostroyeniye,
No 7, 1964, pp 41-45. 9698238
FPU-TT-65-1029

Sci - Engr
Dec 65

291,917

NCH-202 563

Field 21E, 20K

Rozenblyum, V. I.
CALCULATION OF THE RUPTURE STRENGTH OF ONE-
PIECE FORGED STEAM TURBINE ROTORS (K Raschetu
Dlitelnoi Prochnosti Tselnokovanykh Rotorov Parovykh
Turbin). 9 Sep 65, 16p (foreign text included) 7refs.
TP/T-3747.

Order from NLL

Trans. of Energomashinostroenie (USSR) v10 n8 p15-8
1964.

I. Associated Electrical
Industries, Ltd.
Trafford Park (England)

Damping of Oscillations In a Set of Bars with
Wire and Tubular Fastening Ties, by R. L.
Zaytul'nik, 9 pp
NIGHTIAB, per, Engineer-Mechanist-vyenlye, No 1,
Aug 64, pp 26-2).
JPRB 29450

DEA
Sci-Bang
Apr 65

271,615

Photoelectric Dynamometer for
Turbomachines, by V. S. Davydov, 9 pp.
RUSSIA?, per, Energomashinostroyeniye,
No 8, 1964, pp 41-43. 9698207
FTD-TT-G5-678

Sci - Elec
Oct 65

290,118